IN THE CLAIMS:

1. (Currently Amended) A device comprising an isotopically enriched piezoelectric material that is a single crystal quartz.

2. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises a single crystal structure.

3. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide.

4. (Original) The device of claim 2 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide.

5. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide having a higher proportion of the Si28 isotope than is present in naturally occurring silicon dioxide.

6. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide wherein at least 94% of the silicon component of said silicon dioxide is Si28.

7. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide wherein at least 99% of the silicon component of said silicon dioxide is Si28.

8. (Original) The device of claim 7 wherein said silicon dioxide has a higher proportion of the O16 isotope than is present in naturally occurring silicon dioxide.

9. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide having a higher proportion of the Si29 isotope than is present in naturally occurring silicon dioxide.

10. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide having a higher proportion of the Si30 isotope than is present in naturally occurring silicon dioxide.

11. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide having a higher proportion of the 016 isotope than is present in naturally occurring silicon dioxide.

12. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched zinc oxide.

13. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched titanium dioxide.

14. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched lithium niobate.

15.(Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched lithium tantalate.

16. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched langasite.

17. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched langatate.

18. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched lead-zirconate-titanate.

19. (Original) The device of claim 1 wherein said device comprises a clock.

20. (Original) The device of claim 1 wherein said device comprises an oscillator.

21. (Original) The device of claim 1 wherein said device comprises an acoustic wave filter.

22. (Original) The device of claim 1 wherein said device comprises a resonator.

23. (Original) The device of claim 1 wherein said device comprises a transducer for an ultrasonic surgical instrument.

24. (Original) The device of claim 1 wherein said device comprises a transducer.

25. (Original) The device of claim 1 wherein said device comprises a speaker.

26. (Original) The device of claim 1 wherein said device comprises an ultrasonic speaker.

27. (Original) The device of claim 1 wherein said device comprises a buzzer.

28. (Original) The device of claim 1 wherein said device comprises a radar system.

29. (Original) The device of claim 28 further comprising a low phase noise reference oscillator having a resonator comprising said isotopically enriched material comprises isotopically enriched piezoelectric material.

30. (Original) The device of claim 1 comprising a transducer for a non-linear response ultrasonic beam speaker system.

31. (Original) The device of claim 1 comprising a transducer for an ultrasonic cleaning system.

32. (Cancelled)